

**Supplementary table 2.** Cellular protein signature of MPXV infected cellular lysates from MEFs <sup>a</sup>.

Protein ID	Gene	MPXV 2022 Log2 FC	MPXV 2022 -LogP	USA 2003 Log2 FC	USA 2003 -LogP	7-61 Log2 FC	7-61 -LogP
Q6BCL1	Pram1	5.3	3.9	6.7	4.6	5.8	4.1
Q8VE94	<b>Fam110c</b>	4.5	2.2	4.3	2.3	4.6	2.3
Q7TPS0	Rps6ka6	4.4	3.9	3.3	3.4	3.3	3.6
P52624	Upp1	4.3	2.1	3.9	2.2	3.7	2.0
Q8R3P0	Aspa	4.0	3.0	4.1	3.2	4.4	3.2
Q62266	Sprr1a	3.5	5.2	2.3	4.0	3.4	4.6
P22437	Ptgs1	3.4	1.5	3.9	1.9	3.2	1.5
Q8R5M8	Cadm1	3.4	1.9	3.2	2.0	4.0	2.2
Q9WVB0	Rbpms	3.2	1.6	3.8	2.7	4.4	2.9
A2A8L5	Ptprf	2.9	1.8	3.1	2.1	3.1	2.0
Q9CXI0	Coq5	2.9	2.2	3.1	2.8	3.5	2.9
Q6GQW0	Abtb3	2.8	1.6	2.7	1.7	2.7	1.7
P52927	Hmga2	2.8	3.7	2.6	3.9	2.7	3.9
Q05769	Ptgs2	2.7	5.1	3.6	4.3	3.4	4.4
Q60695	Rgl1	2.7	1.7	2.5	1.7	2.6	1.7
Q9CYH2	Prxl2a	2.7	3.0	3.3	3.6	3.3	3.4
Q9Z183	Padi4	2.7	2.5	2.0	2.2	2.9	2.5
Q9ES46	<b>Parvb</b>	2.6	1.6	2.3	1.6	2.6	1.7
P82343	Renbp	2.5	1.6	3.2	2.1	3.0	1.9
Q61490	Alcam	2.5	3.9	3.3	4.9	3.3	4.4
P12388	Serpinb2	2.4	3.0	1.7	2.2	1.9	2.4
P08103	Hck	2.4	2.1	2.2	2.1	2.6	2.3
Q60765	Atf3	2.2	1.4	2.4	1.6	2.2	1.4
Q05915	Gch1	2.1	2.0	2.3	2.4	2.0	2.0
P50615	Btg3	2.0	2.3	1.4	1.9	1.5	1.8
P28650	Adss1	2.0	1.7	1.8	1.7	2.1	1.9
O89114	Dnajib5	1.9	3.0	1.1	2.1	1.2	2.4
Q9CZJ1	Utp11	1.9	2.9	1.3	1.7	2.1	2.9
P48755	Fosl1	1.8	2.9	2.2	3.5	2.0	3.0
Q9CQT7	Desi1	1.7	2.7	1.2	3.2	1.2	3.1
Q60651	Klra4	1.7	1.4	2.4	3.1	2.1	2.7
P06837	Gap43	1.7	1.4	2.3	1.9	2.3	1.8
Q61739	Itga6	1.7	2.2	2.3	2.9	2.2	2.8
Q62469	Itga2	1.7	2.5	2.3	3.1	1.4	2.1
P17095	Hmga1	1.6	3.4	1.2	4.4	1.5	4.1
Q9Z1B3	Plcb1	1.6	3.1	1.1	1.9	1.1	2.4
Q3V0K9	Pls1	1.6	1.9	1.0	1.4	1.3	1.6
Q8BPS4	Gpr180	1.6	1.6	1.8	1.8	1.7	1.6
P47226	Tes	1.6	4.0	1.2	3.6	1.3	3.5

Q60793	Klf4	1.6	1.9	1.5	2.0	1.2	1.5
Q08509	Eps8	1.5	3.7	1.4	3.8	1.5	3.6
Q91WT8	Rbm47	1.5	3.3	1.3	3.7	1.5	3.4
P35456	Plaur	1.4	3.5	2.1	4.1	1.9	3.6
P48432	Sox2	1.4	2.8	1.6	3.1	2.2	3.5
Q9ESV0	Ddx24	1.4	2.1	1.6	2.6	1.4	2.2
P47911	Rpl6	1.4	1.6	1.5	1.8	1.5	1.8
Q8K363	Ddx18	1.4	2.0	1.9	2.7	1.5	2.3
P31955	Areg	1.4	1.8	1.7	2.5	1.8	2.6
Q99K82	Smox	1.3	2.1	1.3	2.5	1.1	1.7
Q9QYR9	Acot2	1.3	3.0	2.5	4.4	2.5	2.7
Q9JII7	Zfand2a	1.3	2.3	1.2	2.3	1.1	2.1
Q8R0F5	Rbmx2	1.2	2.5	1.3	2.7	1.3	2.3
Q8BVY0	Rsl1d1	1.2	2.3	1.6	3.0	1.2	2.4
Q8K3J5	Znf131	1.2	1.8	1.3	2.6	1.3	2.2
P12970	Rpl7a	1.2	1.9	1.1	2.0	1.4	2.3
Q8CIB9	Esco2	1.2	1.3	1.5	1.8	1.6	2.0
P12032	Timp1	1.2	2.3	1.5	3.1	1.4	2.7
Q9DCA5	Brix1	1.1	1.5	1.7	2.4	1.3	1.9
Q8BHE8	Maip1	1.1	3.0	1.4	2.6	1.3	2.9
Q3UHB1	Nt5dc3	1.1	3.7	1.7	4.6	1.4	3.6
P27659	Rpl3	1.1	1.5	1.4	2.0	1.3	1.9
Q99ME9	Gtpbp4	1.1	2.4	1.6	3.0	1.2	2.6
Q9JMD1	Sfmbt1	1.1	1.3	1.4	2.3	1.7	2.4
Q9CZM2	Rpl15	1.0	1.6	1.4	2.2	1.6	2.4
P53986	Slc16a1	1.0	3.1	1.4	3.6	1.5	3.0
P62918	Rpl8	1.0	1.6	1.2	2.0	1.2	1.9
Q9CXC3	Mgme1	1.0	2.5	1.8	4.4	1.6	3.3
Q6P6L0	Filip1l	-1.0	3.9	-1.1	3.7	-1.2	3.6
Q08093	Cnn2	-1.0	3.5	-1.2	3.9	-1.2	4.0
P56387	Dynlt3	-1.0	2.0	-1.4	1.8	-1.8	1.6
O55222	Ilk	-1.0	4.1	-1.3	4.5	-1.2	4.2
Q01730	Rsu1	-1.0	3.8	-1.6	4.3	-1.2	4.2
O70318	Epb41l2	-1.1	5.2	-1.3	4.8	-1.1	4.3
Q925H1	Trps1	-1.1	2.9	-1.4	3.3	-1.2	3.3
Q9WV92	Epb41l3	-1.1	5.5	-1.3	4.6	-1.2	4.0
Q9Z0H4	Celf2	-1.1	2.3	-1.4	4.2	-1.3	3.0
P35822	Ptprk	-1.1	3.2	-1.3	3.8	-1.5	3.6
P35569	Irs1	-1.1	3.7	-1.5	3.7	-1.7	3.6
Q9CY18	Snx7	-1.1	4.5	-1.3	5.0	-1.2	4.5
Q9R118	Htra1	-1.1	2.9	-2.6	4.8	-2.8	4.0
F8VPU2	Farp1	-1.1	3.3	-1.3	3.5	-1.1	3.2
P56390	Cks2	-1.1	3.5	-1.0	3.1	-1.3	3.4
Q61553	Fscn1	-1.1	4.5	-1.3	4.6	-1.0	4.0
P48025	Syk	-1.2	3.6	-1.5	4.1	-1.1	4.1
Q05A36	Mex3c	-1.2	2.5	-1.3	3.2	-1.4	3.1

Q91W92	Cdc42ep1	-1.2	3.0	-1.4	3.6	-1.2	3.1
Q61234	Snta1	-1.2	4.6	-1.2	3.5	-1.2	4.2
Q8CG19	Ltbp1	-1.2	3.8	-1.2	3.7	-1.6	3.8
P26645	Marcks	-1.2	4.0	-1.6	4.0	-1.3	3.9
Q9CWZ7	Napg	-1.3	3.1	-1.1	3.3	-1.2	3.3
Q61062	Dvl3	-1.3	2.0	-1.2	1.3	-2.5	1.8
Q9ESL4	Map3k20	-1.3	4.0	-1.5	4.7	-1.4	3.9
P62965	Crabp1	-1.3	3.7	-1.8	3.7	-1.5	3.4
Q8CC35	Synpo	-1.3	3.6	-1.9	3.7	-1.7	3.1
Q6PCZ4	Magee1	-1.3	2.1	-1.1	1.3	-2.0	2.0
Q922P8	Tmem132 a	-1.3	2.8	-1.7	3.5	-1.7	2.6
O88942	Nfatc1	-1.4	2.0	-1.3	3.3	-1.3	2.8
Q9R1B9	Slit2	-1.4	4.0	-1.2	3.6	-1.4	4.2
Q8BQ89	Lix1l	-1.4	1.4	-2.2	3.7	-2.2	1.4
Q63918	Cavin2	-1.4	3.4	-1.0	3.5	-1.3	2.5
P61588	Rnd3	-1.4	3.6	-1.2	2.8	-1.7	4.0
P0DOV2	Ifi204	-1.4	2.6	-3.0	2.0	-2.0	2.3
P97315	Csrp1	-1.4	4.5	-1.6	4.9	-1.6	3.4
Q91ZJ5	Ugp2	-1.5	4.3	-1.8	4.8	-1.7	4.5
Q9JKS5	Habp4	-1.5	3.1	-2.5	2.0	-2.5	3.6
Q05816	Fabp5	-1.5	3.9	-1.9	3.6	-1.8	3.7
Q80YS6	<b>Afap1</b>	-1.5	2.8	-1.9	3.8	-1.7	3.3
Q8K1N2	Phldb2	-1.5	4.4	-2.1	4.0	-2.1	4.0
O70456	Sfn	-1.5	2.1	-2.3	1.5	-2.4	1.5
Q9CQW9	Ifitm3	-1.5	3.2	-1.2	2.9	-1.7	2.9
Q61823	<b>Pdcd4</b>	-1.6	3.5	-1.6	3.1	-1.9	3.7
P48036	Anxa5	-1.6	1.7	1.0	3.3	1.1	4.1
Q8R3B1	Plcd1	-1.6	2.5	-1.4	3.5	-1.3	3.0
P98203	Arvcf	-1.6	2.4	-1.8	3.1	-1.3	2.7
P22777	Serpine1	-1.6	3.2	-1.5	2.7	-2.0	3.6
P29533	Vcam1	-1.7	3.1	-1.5	3.1	-1.5	3.1
Q61572	Foxc1	-1.7	3.0	-1.4	4.0	-1.2	3.1
Q08879	Fbln1	-1.7	3.8	-1.7	2.6	-1.7	2.5
P51655	Gpc4	-1.7	4.8	-1.0	3.6	-1.3	4.7
Q8BLX7	Col16a1	-1.7	2.2	-3.4	3.8	-3.6	2.6
P20357	Map2	-1.7	2.9	-2.5	4.0	-2.2	4.0
Q61292	Lamb2	-1.7	3.3	-1.5	3.4	-1.4	3.2
P54254	Atxn1	-1.7	2.7	-2.4	3.4	-1.9	1.5
Q7TN75	Peg10	-1.7	1.6	-2.0	3.3	-2.2	1.8
Q9CWS0	Ddah1	-1.8	4.6	-2.4	4.8	-2.2	4.2
Q61398	Pcolce	-1.8	3.6	-1.5	3.4	-1.4	2.8
Q4KML4	Abrac1	-1.8	4.2	-1.4	3.6	-1.8	4.3
P15066	Jund	-1.8	1.9	-1.9	1.6	-1.7	1.4
Q99K41	Emilin1	-1.8	3.7	-2.1	4.4	-2.1	3.8
Q8BU85	Msr3	-1.8	3.7	-1.6	3.0	-1.8	4.3

Q9CWF2	Tubb2b	-1.9	3.5	-1.5	3.5	-1.3	4.1
Q8K2A1	Gulp1	-1.9	4.0	-2.0	4.7	-1.9	4.4
Q9WVJ9	Efemp2	-1.9	4.0	-1.5	3.9	-1.5	3.4
Q8BH64	Ehd2	-1.9	4.3	-2.3	4.6	-2.0	3.9
Q8K262	Plac9	-1.9	1.3	-1.5	1.5	-1.8	1.4
Q8VHY0	Cspg4	-1.9	3.7	-1.8	4.2	-1.7	4.0
Q05793	Hspg2	-2.0	4.7	-1.8	3.8	-1.6	3.9
Q9JJE7	Fads3	-2.0	2.9	-2.0	2.8	-1.8	3.3
Q62000	Ogn	-2.0	1.7	-1.2	2.3	-2.2	3.5
Q9CYL5	Glpr2	-2.1	4.7	-2.1	3.7	-1.7	3.9
O35309	Nmi	-2.1	2.7	-2.0	2.6	-1.2	2.9
Q9D032	Ssbp3	-2.1	3.8	-1.8	4.1	-2.0	4.1
Q61554	Fbn1	-2.1	3.7	-1.7	3.6	-2.1	3.5
O89026	Robo1	-2.1	2.4	-2.1	3.1	-3.3	3.6
Q9ESD7	Dysf	-2.1	2.2	-1.9	2.5	-2.1	2.8
P58771	Tpm1	-2.1	4.5	-1.8	5.2	-2.2	4.3
Q5BKP2	Usp13	-2.1	1.7	-1.9	1.7	-2.7	2.1
Q9ET54	<b>Palld</b>	-2.1	4.5	-2.1	5.0	-1.9	4.5
Q8VDF3	<b>Dapk2</b>	-2.2	2.2	-2.6	1.9	-3.4	2.6
P07214	Sparc	-2.2	3.8	-1.6	3.7	-1.7	3.5
Q01721	Gas1	-2.2	2.9	-2.5	2.8	-2.2	2.0
Q8JZX9	Cdc42ep2	-2.2	1.8	-2.1	2.6	-2.0	1.9
O54775	Ccn4	-2.2	2.0	-2.8	2.8	-2.9	2.6
Q99LJ6	Gpx7	-2.2	3.2	-1.2	2.8	-1.4	2.6
Q60760	Grb10	-2.3	3.9	-2.3	4.4	-2.6	3.4
Q9Z1R3	Apom	-2.3	1.5	-1.5	1.6	-2.5	3.3
Q8R1S9	Slc38a4	-2.3	3.1	-3.9	2.4	-3.0	2.3
Q9CQE5	Rgs10	-2.3	2.0	-2.0	1.7	-3.1	3.3
Q60648	Gm2a	-2.3	2.5	-1.6	2.7	-1.8	2.8
P28231	Gjb3	-2.3	1.9	-1.5	2.9	-2.5	3.4
O08573	Lgals9	-2.3	2.5	-1.9	3.5	-2.4	2.4
Q6NSU3	Glt8d1	-2.4	1.9	-1.9	1.6	-1.1	1.3
Q9JJN6	Ctnnbip1	-2.4	2.0	-2.4	1.5	-2.4	1.3
Q01063	Pde4d	-2.4	2.9	-2.3	3.0	-1.8	1.8
Q8BH97	Rcn3	-2.4	3.4	-1.6	3.3	-1.9	3.2
Q8BWL5	Rbms3	-2.4	1.6	-2.9	2.1	-3.2	1.9
P48758	Cbr1	-2.4	3.3	-2.3	4.4	-2.1	3.6
O88207	Col5a1	-2.4	2.7	-2.2	3.2	-2.3	3.0
O35955	Psmb10	-2.5	2.7	-2.6	3.7	-3.3	2.8
Q9WUU7	Ctsz	-2.5	2.0	-1.3	2.0	-1.8	2.6
Q8CG71	P3h2	-2.5	2.1	-2.8	3.5	-2.6	2.1
Q6Q477	Atp2b4	-2.5	2.3	-2.2	3.3	-1.8	1.7
P16460	Ass1	-2.5	1.4	-1.4	3.6	-1.8	2.2
Q62407	Speg	-2.5	1.8	-4.3	3.3	-4.1	2.8
Q9Z191	Eya4	-2.5	2.5	-2.5	2.2	-2.5	2.6
P37804	Tagln	-2.6	2.3	-1.8	3.6	-3.2	2.2

P58022	Loxl2	-2.6	4.6	-2.0	2.6	-1.8	2.4
Q61245	Col11a1	-2.7	2.2	-3.2	1.8	-3.2	3.4
Q570Y9	Deptor	-2.7	3.3	-3.4	2.7	-4.4	3.9
Q62219	Tgfb1i1	-2.8	1.6	-2.0	1.4	-2.6	2.9
P40224	Cxcl12	-2.9	2.7	-2.9	2.9	-3.1	3.0
Q9JLM8	Dclk1	-2.9	1.5	-1.4	2.7	-2.1	2.9
Q9CQ19	Myl9	-3.0	3.0	-3.0	4.8	-3.2	4.1
Q9DC11	Plxdc2	-3.0	2.8	-3.7	1.5	-3.2	2.7
Q04857	Col6a1	-3.0	3.2	-1.8	4.1	-2.5	3.5
Q3U962	Col5a2	-3.0	4.0	-2.5	4.1	-3.0	3.6
O08736	<b>Casp12</b>	-3.1	1.6	-4.0	3.3	-4.6	3.2
Q61581	Igfbp7	-3.3	1.9	-2.2	3.6	-3.1	2.5
P11276	Fn1	-3.3	5.2	-2.8	4.0	-2.2	3.7
Q8BTG3	Tcp11l1	-3.3	1.8	-3.7	1.6	-2.5	2.4
Q02788	Col6a2	-3.5	3.6	-3.6	2.1	-3.7	2.7
Q61391	Mme	-3.6	1.6	-1.3	2.9	-1.2	2.4
Q8K157	Galm	-3.7	2.2	-3.9	2.0	-3.1	3.4
P37889	Fbln2	-3.7	5.2	-3.5	5.2	-3.9	4.6
P11087	Col1a1	-3.7	4.2	-3.8	4.4	-3.9	4.5
Q9JHT5	Ammecr1	-3.7	4.0	-4.3	2.3	-5.1	2.9
Q9JHI5	Ivd	-3.7	3.8	-4.3	3.1	-3.7	1.6
P97873	Loxl1	-3.9	4.1	-2.7	4.4	-2.7	3.3
Q9Z2V5	Hdac6	-3.9	3.7	-5.1	2.7	-3.8	3.6
Q8K4G5	<b>Ablim1</b>	-3.9	2.9	-2.9	2.8	-2.9	2.7
Q91XV3	Basp1	-4.0	4.6	-4.2	5.0	-3.8	4.8
Q8VEB1	Grk5	-4.1	2.3	-3.6	2.7	-3.9	3.2
Q5RL51	Gstcd	-4.2	1.7	-2.5	3.1	-3.1	2.6
Q91ZE0	Tmlhe	-4.3	3.1	-3.7	2.5	-4.3	3.3
Q8K007	Sulf1	-4.3	1.9	-3.1	4.8	-3.3	4.1
P28301	Lox	-4.5	3.0	-4.2	3.4	-3.6	3.5
Q924W7	Dennd2b	-4.6	2.2	-2.7	1.6	-3.2	1.5
P97447	Fhl1	-4.8	5.8	-4.8	5.5	-4.5	4.6
P01831	Thy1	-4.9	3.8	-4.4	5.2	-5.4	3.0
Q64133	Maoa	-5.1	4.4	-5.5	4.0	-5.3	3.9
Q8BR92	Pakap	-5.1	3.1	-5.1	3.4	-4.0	2.1
P70180	Npr3	-5.3	2.0	-4.4	3.7	-4.9	4.2

**a** Cellular protein signature of MPXV MOI 1 infected MEF lysates at 21 hours post-infection. Protein ID, protein name, gene name, log<sub>2</sub>-fold change (FC) (MPXV infected MEF versus MEF Mock) of the levels of each protein, and statistical significance (-log P value) of each Clade II strain are listed. Genes mentioned in the text are highlighted in bold.